



FEATURES

- Low Forward Voltage Drop
- Very Small SMD Package

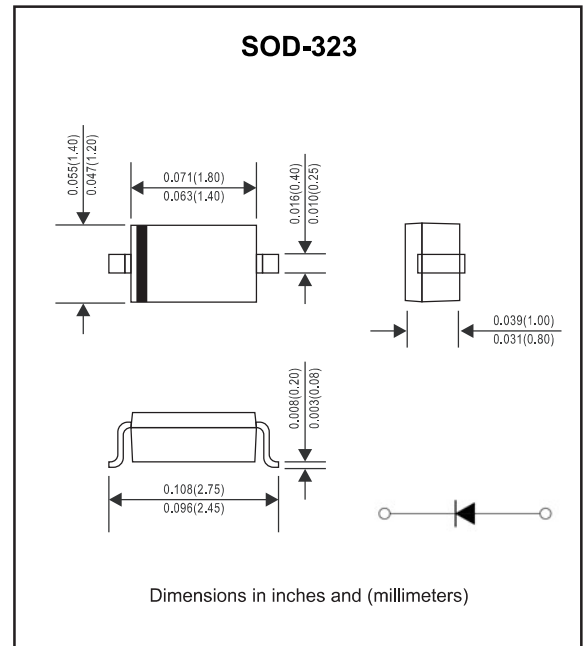
APPLICATIONS

- Low Voltage Rectification
- High Efficiency DC/DC Conversion
- Switch Mode Power Supply
- Inverse Polarity Protection
- Low Power Consumption Applications

MARKING: SH



Package outline



MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{RRM}	Peak Repetitive Reverse Voltage	40	V
V _{RWM}	Working Peak Reverse Voltage		
V _{R(RMS)}	RMS Reverse Voltage	28	V
I _F	Continuous Forward Current	2	A
I _{FSM}	Non-repetitive Peak Forward Surge Current @ t=8.3ms	9	A
P _D	Power Dissipation Note1	250	mW
	Note2	480	
R _{θJA}	Thermal Resistance from Junction to Ambient Note1	400	°C/W
	Note2	208	
T _j	Operating Junction Temperature Range	-40 ~ +125	°C
T _{stg}	Storage Temperature Range	-55 ~ +150	°C

1: Device mounted on an FR4 PCB, single-sided copper, tin-plated and standard footprint.

2: Device mounted on an FR4 PCB with copper pad 10 x 10 mm.

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R =1mA	40			V
Reverse current	I _R	V _R =30V			50	μA
		V _R =40V			100	
Forward voltage	V _F *	I _F =1A		0.41	0.45	V
		I _F =2A		0.50	0.55	
Total capacitance	C _{tot}	V _R =4V, f=1MHz			120	pF

*Pulse test: t_p ≤ 300 μs; δ ≤ 0.02.

Typical Characteristics

